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TECH CENTER 1600/2900

I. AMENDMENT

Please make the following amendments:

IN THE CLAIMS:

B1
SUB C2
7. (Amended) A substrate with a surface comprising a microarray of DNA sequences, wherein (i) the microarray has a density of about 400 or more discrete regions of DNA sequences per cm² of substrate surface, (ii) the DNA sequences are isolated polynucleotides, (iii) the microarray comprises 400 or more regions, and (iv) the DNA sequences contained in each discrete region are at least about 50 subunits in length, each region in the microarray is free of cross-contamination with DNA sequences applied to the other regions in the microarray.

B2
SUB C4
34. (Amended) A substrate with a surface comprising a microarray of DNA sequences and suitable for analysis of a polynucleotide mixture, wherein (i) the microarray has a density of about 400 or more discrete regions of DNA sequences per cm² of substrate surface; (ii) each of said regions contains, as an isolated polynucleotide, a [characteristic] unique DNA sequence having at least about 50 subunits; (iii) the microarray comprises at least 400 regions free of cross-contamination by DNA sequences [characteristic of] unique to others of said 400 regions, such that the DNA sequences in said regions are selective in hybridizing with corresponding members of said mixture.

B3
36. (Amended) A substrate with a surface comprising a microarray of DNA sequences, wherein (i) the microarray has a density of 400 or more discrete regions of DNA sequences per cm² of substrate surface, (ii) the DNA sequences are purified polynucleotides having at least 50